# TRANSLATION PATENT COOPERATION TREATY POT

# INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

(Chapter II of the Patent Cooperation Treaty)

(PCT Article 36 and Rule 70)

Applicant's or agent's file reference		FOR FURTHER A	CTION	See Form PCT/IPEA/416				
56332		·	de (destes end)	District data (day/month/month)				
International application No. PCT/EP2004/013349		International filing da		Priority date (day/month/year) 19.12.2003				
				15.12.2003				
International Patent Classification (IPC) or national classification and IPC								
B25D17/	08	•						
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Applicant WACKER CONSTRUCTION EQUIPMENT AG								
1. This report is the international preliminary examination report, established by this International Preliminary Examining Authority under Article 35 and transmitted to the applicant according to Article 36.								
2. This R	EPORT consists of	a total of 6	sheets, including	g this cover sheet.				
3. This re	eport is also accomp	anied by ANNEXES, comprising	•					
, 5	(sent to the an	olicant and to the International Bi	ureau) a total of 3	sheets, as follows:				
	sheets of	the description, claims and/or dra	awings which have been a	mended and are the basis for this report and/or				
<u> </u>	sheets containing rectifications authorized by this Authority (see Rule 70.16 and Section 607 of the Administrative Instructions).							
	sheets which supersede earlier sheets, but which this Authority considers contain an amendment that goes beyond the disclosure in the international application as filed, as indicated in item 4 of Box No. I and the Supplemental Box.							
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b. <u>L</u>	(sent to the Int	ernational Bureau only) a total of	(indicate type and number	of electronic carrier(s))				
	-			_ , containing a sequence listing and/or tables				
		n computer readable form only, and a Administrative Instructions).	as indicated in the Supple	mental Box Relating to Sequence Listing (see				
4. This r	eport contains indica	ations relating to the following ite	ms:					
	Box No. I	Basis of the report						
	Box No. II	Priority						
			h regard to novelty invent	ive step and industrial applicability				
	Box No. III Non-establishment of opinion with regard to novelty, inventive step and industrial applicability							
	Box No. IV Lack of unity of invention  Description Action 35(2) with regard to povelty, inventive step or industrial applicability:							
	Box No. V  Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement							
	Box No. VI Certain documents cited							
	Box No. VII	To. VII Certain defects in the international application						
Box No. VIII Certain observations on the international application								
Date of submiss	Date of submission of the demand  Date of completion of this report							
Name and mailing address of the IPEA/EP			Authorized officer					
Facsimile No.			Telephone No.					

# INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

International application No.
PCT/EP2004/013349

With regard to the language, this report is based on the international application in the language in which it was filed, unless otherwise indicated under this item.    This report is based on translations from the original language into the following language which is the language of a translation furnished for the purposes of:   International search (Rule 12.3 and 23.1(b)   publication of the international application (Rule 55.2 and/or 55.3)   international preliminary examination (Rule 55.2 and/or 55.3)     With regard to the elements of the international application, this report is based on (replacement sheets which have been furnished to the receiving Office in responses to an invitation under Article 14 are referred to in this report as "originally filed" and are not annexed to this report):   the international application as originally filed/furnished     the description:	Box	No. I	Basis of the report				
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# INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

International application No.
PCT/EP2004/013349

		nt under Article 35(2) with regard to novelty, inventive step or industrial applicability; anations supporting such statement			
1.	Statement				
	Novelty (	N)	Claims	1-14	YES
			Claims	<del></del>	NO
	Inventive	step (IS)	Claims		YES
		•	Claims	1-14	NO
	· Industrial	applicability (IA)	Claims	1-14	YES
			Claims		NO

- 2. Citations and explanations (Rule 70.7)
  - 1. Reference is made to the following documents:
    - D1: GB-A-1 505 907 (DUSS F GMBH & CO), 5 April 1978 (1978-04-05)
    - D2: DE 41 36 584 A1 (HILTI AG, SCHAAN, LI; HILTI AG, SCHAAN), 13 May 1993 (1993-05-13)
    - D3: DE 37 16 915 A1 (ROBERT BOSCH GMBH; ROBERT BOSCH GMBH, 7000 STUTTGART, DE), 8 December 1988 (1988-12-08)

The application fails to meet the requirements of PCT Article 33(1) because the subject matter of claims 1 to 14 does not involve an inventive step (PCT Article 33(3)).

Document D1 discloses the following (the references in parentheses are to D1):

Device for a rotary hammer and/or percussion hammer, with a tool fitting for holding a tool (331) and transmitting a torque to the tool (331), the tool fitting having:

- a substantially hollow-cylindrical recess (37)

International application No.
PCT/EP2004/013349

Box No. V

Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

which forms a tool holder and has an insertion opening in one end face, into which an insertion end of the tool (331) can be inserted, and which also has a striker opening in the opposite end face, through which a striking action can be applied to the insertion end;

- at least one rotary driver dog (32) formed on the inside of the tool holder; and
- at least one locking element (32) (see page 3, lines 12 to 15) which in its locking condition is held in a predefined radial position, and which in its release condition can be moved in at least the radial direction out of the predefined radial position;
- wherein a stop face which acts in the axial direction of the tool holder is provided on an inside wall of the tool holder near the striker opening.

The subject matter of claim 1 differs from the known device in that the rotary driver dog is in the form of a ridge, and in that the rotary driver dog and the locking element are separate components (see "and" the description, page 3, line 37).

The locking element 32 in document D1 combines, in a single component, the functions of the driver dog and the locking element specified in the amended claim 1. The tool fitting of D1 can only be used for relatively small low-powered rotary hammers.

Box No. V Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

The problem addressed by the present invention can thus be seen as that of designing a tool fitting which can be used for high-powered medium-duty and heavy-duty rotary hammers, in particular for clutches of the type known as "SDS-max", and which is characterised by (inter alia) the fact that the insertion ends of the tools have driver grooves that are open at the rear and transmit the high torques associated with high-powered rotary hammers by acting against fixed ridges.

The solution proposed in claim 1 of the application cannot be considered inventive (PCT Article 33(3)) because these features have already been employed for the same purpose many times in similar tool holders (see, for example, DE 37 16 915 (document D3)). A person skilled in the art wishing to achieve the same purpose with a tool fitting as described in D1 could easily incorporate these features with similar results. It would thus be possible to arrive at a tool fitting as defined in claim 1 without making an inventive contribution.

- 3. Dependent claims 2 to 14 do not contain any features that meet the PCT requirements in respect of inventive step when combined with the features of any of the back-referenced claims. The reasons for this are as follows:
- 3.1 All the additional features specified in claims 2, 4, 5 to 8, 10 to 12 and 14 are known from D1. These claims therefore do not add anything novel.

# INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

International application No.
PCT/EP2004/013349

Box No. V

Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

- 3.2 All the additional features specified in claims 1, 2, 4, 6 and 10 to 14 are known from D2. These claims therefore do not add anything novel.
- 3.3 The features specified in claims 3, 5 and 9 have already been employed for the same purpose in similar tools (see documents D2 and D3). To a person skilled in the art it is therefore obvious that these features can be incorporated in a tool as known from D1 with similar results so as to arrive at a tool as claimed in claims 3, 5 and 9.